

ABSTRACT

Air sampler with integrated airflow sensing. The air sampler according to at least some embodiments includes an air mover that is operable to move air over a sampling media. An integrated airflow sensor is in fluid communication with the air mover. The air mover operating speed can be adjusted, in example embodiments, by either a feedback control mechanism that is connected to the air mover and the integrated airflow sensor, by user input, or by a combination of the two. The feedback control mechanism adjusts the operating speed of the air mover in response to signaling from the integrated airflow sensor in order to maintain an actual airflow in accordance with a stored, target value. The feedback can, in at least some embodiments, compensate for obstructions, environmental variables, variations in the power supplied to the air mover, and the like.